

VERTICAL DIMENSION
OF PIPE (INCHES)

MAXIMUM ALLOWABLE DISTANCE
BETWEEN MANHOLES AND/OR CLEANOUTS

15 to 36
42 AND LARGER

400 FEET
500 FEET

MINIMUM RADIUS FOR RADIUS PIPE

DIAMETER OF PIPE

RADIUS OF CURVATURE

48" TO 54"
57" TO 72"
78" TO 108"

28.50 FEET
32.00 FEET
38.00 FEET

SHORT RADIUS BENDS SHALL NOT BE USED ON
SEWERS 42 INCHES OR LESS IN DIAMETER

MINIMUM PIPE DIAMETER

TYPE

MINIMUM EQUIVALENT
PIPE DIAMETER

MINIMUM CROSS-
SECTIONAL AREA

MAIN TRUNK
*LATERAL FROM INLET

18 INCHES

1.77 SQ FT

*MINIMUM SIZE OF LATERAL SHALL ALSO BE BASED UPON A WATER
SURFACE INSIDE THE INLET WITH A MINIMUM DISTANCE OF 1 FOOT
BELOW THE GRATE OR THROAT

MANNING'S N-VALUE

SEWER TYPE

CAPACITY CALCULATION

VELOCITY CALCULATION

CONCRETE (NEWER PIPE)
CONCRETE (OLDER PIPE)
CONCRETE (PRELIMINARY
SIZING)
PLASTIC

.013
.015
.015
.011

.011
.012
.012
.009

N.T.S.



STANDARDS &
SPECIFICATIONS

REVISED:

**STORM SEWER
ALIGNMENT AND
SIZE CRITERIA**

DATE:

DRAWING NO. 400-18